

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/CEMENT/2017-18

Date: 12.04.2017

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. K. Jagadish, #3424, 6 th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of Work	:	Improvements to Drain at 7 th Main dead end (Near HPS) Bhuvaneshwari Nagara Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/17/2017-18 Dated: 10.04.2017
* Sample ID	:	Cement – Sample 3
Sample Received on	:	10.04.2017
Period of Testing	:	10.04.2017 to 12.04.2017



CIVIL ENGINEERING
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The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/AGG/GR/2017-18

12.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. K. Jagadish, #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of Work	: Improvements to Drain at 7th Main dead end (Near HPS) Bhuvaneshwari Nagara Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/17/2017-18 Dated: 10.04.2017
* Sample ID	: Coarse Aggregates (40mm) – Sample 3
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 10.04.2017
Date of Testing	: 12.04.2017



Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.84	95-100	85-100
20	36.84	30-70	0-20
10	19.24	10-35	0-5
4.75	2.14	0-5	-

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Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/Cube/2017-18

16.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. K. Jagadish, #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of the work	: Improvements to Drain at 7th Main dead end (Near HPS) Bhuvaneshwari Nagara Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/17/2017-18 Dated: 10.04.2017
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 16.05.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.04.2017	16.05.2017	8.168	485.5	21.58
2	18.04.2017	16.05.2017	8.225	495.6	22.03
3	18.04.2017	16.05.2017	8.305	502.3	22.32

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Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/Cube/2017-18

17.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. K. Jagadish, #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of the work	: Improvements to Drain at 7th Main dead end (Near HPS) Bhuvaneshwari Nagara Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/17/2017-18 Dated: 10.04.2017
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 17.05.2017



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	19.04.2017	17.05.2017	8.135	493.5	21.93
2	19.04.2017	17.05.2017	8.229	512.6	22.78
3	19.04.2017	17.05.2017	8.336	520.3	23.12

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No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/Pre Slab/2017-18

25.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. K. Jagadish, #3424, 6th Cross, Gayathrinagar, Bangalore – 560 021.
* Name of work	:	Improvements to Drain at 7th Main dead end (Near HPS) Bhuvaneshwari Nagara Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/17/2017-18 Dated: 10.04.2017
* Sample ID	:	Precast slab (100mm thick)
* Grade of Concrete	:	M ₂₀
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	20.04.2017
Date of Testing	:	25.04.2017



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	79.00	0.389	2507.80	1.58	0.955	30.50	15.53	16.78	17.57	21.97
2	50.00	80.00	0.393	2501.92	1.60	0.957	32.65	16.63	17.96	17.18	21.48
3	50.00	81.00	0.399	2508.75	1.62	0.959	33.95	17.29	18.67	17.91	22.38

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